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chapter will be particularly valuable to American students. The illustrations in this chapter are also very useful, the skull, with the "branchial basket" and anterior part of the notochord being shown together, besides cuts of the brain-case from above, a full page cut of the longitudinal section of a female from the left side, showing the organs in place; also a view of the urogenital sinus, with the rectum and part of the left kidney, with three transverse sections, one through the branchial region, another through the abdominal, and the third through the caudal; and finally a dorsal view of the brain.

The skate is a novel subject, and its anatomy is carefully described, the skeleton, venous system, urogenital organs, heart and blood-vessels, and nervous system including several views of the brain as well as the ear, being well illustrated. In like manner is the cod described and figured; this chapter will be useful to the American student; the cod's skull, disarticulated, is well figured and briefly described.

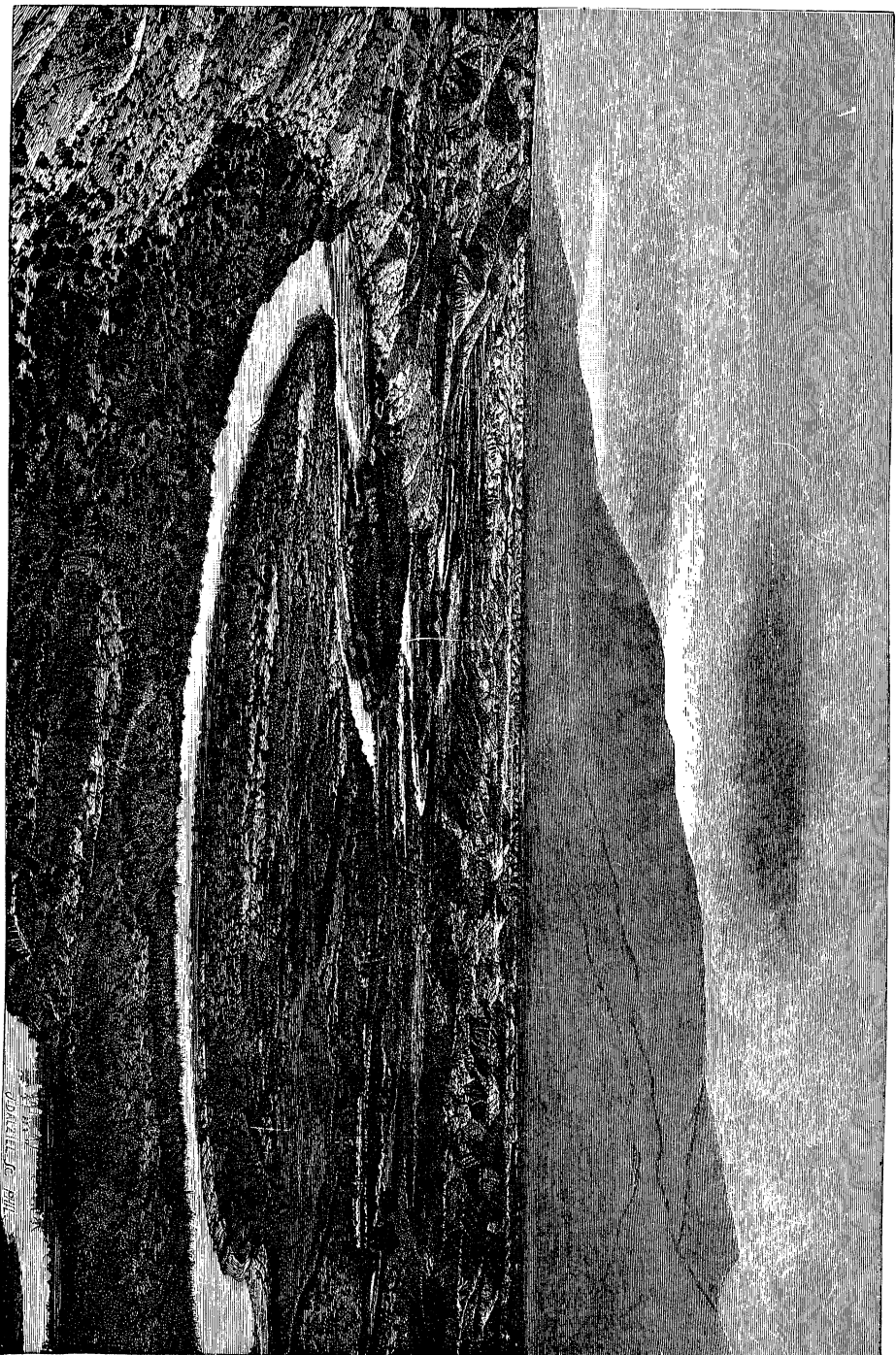
Fifty pages are devoted to the account of the lizard (*Lacerta agilis*), and this will be useful in the hands of the American student if living south of Pennsylvania, as he can readily obtain a *Sceloporus* or swift for dissection. The wood-cuts in this chapter represent the chondrocranium, the scales on the head of several species of lizards, the chief muscles of the ventral aspect and a general view of the body to show the alimentary, circulatory, respiratory and urogenital organs; the latter organs of each sex are also separately figured, as well as the heart and aortic arches, while the brain in different positions is well drawn and engraved. The remainder of the book, comprising the latter half, is devoted to the pigeon and rabbit.

With such a guide as this, and Rolleston's *Forms of Life*, Brooks' *Invertebrate Anatomy*, Huxley and Martin's *Elementary Biology*, Moale on the Turtle and Pigeon, with Parker and Bettany on the Skull, the beginner in zoötomý has full directions and every incentive to lay broad and deep foundations for a knowledge of comparative anatomy.

SHEPARD'S MINERAL RECORD.¹ — This is a bound series of blanks for the use of beginners in the study of minerals, and is preceded by excellent definitions of terms used in examining the physical characters, and of chemical reactions. The only criticisms we should make is, that reference is not made to the system of crystals or the special form, an important feature of instruction in mineralogy, though room is left blank for these points, which might be inserted by the instructor.

¹ *Systematic Mineral Record*, with a synopsis of terms and chemical reactions used in describing minerals. Prepared for instructors and students in mineralogy. By EDWARD M. SHEPARD, A.M., professor of biology and geology, Drury College, Springfield, Mo. Adapted to any mineralogy. A. S. Barnes & Co., New York and Chicago. Sm. 4°o, pp. 98.

PLATE IX.



Lahontan Lake-beds in Humboldt Valley.